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Datasheet for ABIN3022867 anti-HDAC2 antibody (C-Term)

17 Images

3 Publications



Overview

Quantity:	100 µL
Target:	HDAC2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)
Product Details	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 390 to the C-terminus of human HDAC2 (NP_001518.3).
Sequence:	VHEDSGDEDG EDPDKRISIR ASDKRIACDE EFSDSEDEGE GGRRNVADHK KGAKKARIEE
	DKKETEDKKT DVKEEDKSKD NSGEKTDTKG TKSEQLSNP
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	HDAC2
Alternative Name:	HDAC2 (HDAC2 Products)
Background:	This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants.,HD2,RPD3,YAF1,HDAC2,Epigenetics & Nuclear Signaling,Chromatin Modifying Enzymes,Deacetylation,Nuclear Receptor Signaling,Signal Transduction,Cell Biology & Developmental Biology,Cell Cycle,G1/S Checkpoint,Notch Signaling Pathway,Wnt/β-Catenin Signaling Pathway,Immunology & Inflammation,NF-kB Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Stem
	Cells,Cardiovascular,Heart,Hypertrophy,HDAC2
Molecular Weight:	51 kDa/55 kDa
Gene ID:	3066
UniProt:	Q92769
Pathways:	Neurotrophin Signaling Pathway, Regulation of Muscle Cell Differentiation, Negative Regulation of intrinsic apoptotic Signaling, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.

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Hanaling Aavice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
Publications	
Product cited in:	Fan, Li, Wang, Emerson, Xu: "A Novel ZIP4-HDAC4-VEGFA Axis in High-Grade Serous Ovarian
	Cancer." in: Cancers , Vol. 13, Issue 15, (2021) (PubMed).
	Wei, Liu, Chen, Gao, Lu, Zhang, Ding, Wang, Chen, Shi, Li, Yu, Wong: "Class I histone
	deacetylases are major histone decrotonylases: evidence for critical and broad function of
	histone crotonylation in transcription." in: Cell research, Vol. 27, Issue 7, pp. 898-915, (2018) (
	PubMed).
	Li, Liu, He, Yang, Pei, Li, Liu, Chen, Xie, Xu, Ting, Zhang, Jin, Liu, Zhang, Yuan, Yang, Wu, Zhang,
	Yang, Yi, Liang, Shang, Sun: "ZNF516 suppresses EGFR by targeting the CtBP/LSD1/CoREST
	complex to chromatin." in: Nature communications, Vol. 8, Issue 1, pp. 691, (2018) (PubMed).

Images



Western Blotting

Image 1. miR-500a-5p is regulated directly by the transcription factor YY1. a The transcriptional factor YY1binding motif was predicted by informatics analysis. b Schematic illustration of the miR-500a-5p promoter with three potential YY1-binding sites. c Luciferase activity of the miR-500a-5p promoter construct after the transfection of the YY1 plasmid in LoVo cells. Student's t test, ***P<0.01 and ****P<0.001. d A ChIP-qPCR assay demonstrated the direct binding of YY1 to the miR-500a-5p promoter in LoVo cells. Student's t test, *test, *P<0.01. Gene enrichment was quantified relative to input controls by qPCR using primers specific for the promoter regions of miR-500a-5p. Results are shown as a fold change of qPCR



value over IgG. e YY1 protein expression in ten freshly collected CRC biopsies using western blot analysis. f YY1 was negatively correlated with miR-500a-5p expression in human CRC tissues measured by qPCR. Linear regression analysis, r=-0.598, ****P<0.001. g Expression of YY1 and mature miR-500a-5p in YY1-overexpressing CRC cells by real-time PCR. Student's t test, **P<0.05 and ***P<0.01. All experiments were repeated three times with identical findings. h ISH analysis of miR-500a-5p and IHC analysis of HDAC2 and YY1 were performed. These figures are representative of colorectal tissues from 10 cancerous and 10 non-cancerous patients. The scale bars represent 200 μ m - figure provided by CiteAb. Source: PMID30737378

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using HDAC2 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of A549 cell using HDAC2 antibody. Blue: DAPI for nuclear staining.

Please check the product details page for more images. Overall 17 images are available for ABIN3022867.

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